

IN THE CLAIMS

Please make the following amendments to the claims:

1. (Currently Amended) A machine-implemented semantic network comprised of a multiplicity of units, wherein

said semantic network contains both semantic units ~~(6)~~ possessing relational contents and also linking units ~~(1a to 4e)~~ describing a relational content which links two respective semantic units ~~(6)~~ such that the mutual relation of the two linked semantic units ~~(6)~~ is determined by the relational content, ~~wherein:~~

at least some of said semantic units ~~(6)~~ are specific semantic Janus units ~~(5)~~ which are also linked with other semantic units ~~(6)~~ through linking units, ~~(1 to 4e)~~;

~~the said each~~ semantic Janus units ~~(5)~~ are is capable of carrying out operations on at least one of itself or other semantic Janus units, themselves, on at least one of semantic units ~~(6)~~ to which ~~they are~~ it is linked ~~and/or on or~~ those to which these are in turn directly or indirectly linked, ~~and/or on or~~ the linking units ~~(1 to 4e)~~ of the said ~~mentioned~~ semantic units ~~(6)~~, and ~~the said~~ semantic Janus units ~~(5)~~ possess time-variable states,

~~characterized in that:~~

said time-variable states determine what operations are to be carried out on at least one of what semantic units ~~(6)~~ ~~and/or or~~ linking units ~~(1a to 4e)~~, and

at least one of values of informational contents of at least one of said semantic units ~~(6)~~ ~~and/or~~ linking units ~~(1 to 4e)~~ changed as a result of the operations of said semantic Janus units ~~(5)~~ are set, ~~new informational contents or new types of informational contents and/or~~ at least one of new semantic units, ~~and/or~~ linking units ~~(1a to 4e)~~ ~~and/or~~ partial networks are introduced ~~and/or~~ at least one of semantic units, ~~(6)~~ ~~and/or~~ linking units ~~(1a to 4e)~~ ~~and/or~~ partial networks within said semantic network are changed or deleted.

2. (Currently Amended) A semantic network in accordance with claim 1, ~~characterized in that wherein~~ the time-variable states of the semantic Janus units ~~(5)~~ express a respective situation existing in said semantic network, in dependence on

which operating within said semantic network is carried out, wherein focusing on selected parts of said semantic network takes place.

3. (Currently Amended) A semantic network in accordance with claim 1, ~~characterized in that~~ wherein said semantic Janus units (5) have both a vicinity to be monitored, which is monitored by said semantic Janus units (5), and a vicinity to be shaped on which said semantic Janus units (5) perform operations, and a respective new time-variable state of said semantic Janus units (5) is determined from the existing time-variable state of said semantic Janus units (5) and/or from an analysis of an optionally variable vicinity to be monitored.

4. (Currently Amended) A semantic network in accordance with claim 3, ~~characterized in that~~ wherein said vicinity to be monitored and/or said vicinity to be shaped are formed of a subset of a vicinity of semantic units (6) to which a respective semantic Janus unit (5) is linked, and/or of a subset of a vicinity of the very respective semantic Janus unit (5).

5. (Currently Amended) A semantic network in accordance with ~~any one of claims 1 through 4~~, ~~characterized in that~~ wherein said semantic Janus units (5), dependently on the existing time-variable state, only concentrate on superobjects located on a higher scale, subobjects located on a lower scale, and/or adjacent objects located on a same scale of said semantic units (6) to which they are linked, and/or on said semantic Janus units (5) themselves.

6. (Currently Amended) A semantic network in accordance with claim 5, ~~characterized in that~~ wherein said linking units (1a to 4c) are also incorporated with said superobjects, subobjects and/or adjacent objects.

7. (Currently Amended) A semantic network in accordance with ~~any one of claims 1 through 6~~, ~~characterized in that~~ wherein said semantic Janus units (5) furthermore possess evaluation criteria indicating what informational contents of semantic units (6),

what semantic units ~~(6)~~, or what partial networks are to be treated next; what priorities are set in a semantic unit ~~(6)~~, in a partial network, or in said entire semantic network; in what manner time-variable states of semantic Janus units ~~(5)~~ are to be deducted from the states of semantic units ~~(6)~~, of partial networks of said semantic network, or of said entire semantic network; how rapidly time-variable states of semantic Janus units ~~(5)~~ change; and/or in what manner semantic units ~~(6)~~ and/or linking units ~~(1a to 4e)~~ are treated.

8. (Currently Amended) A semantic network in accordance with claim 7, ~~characterized in that~~ wherein said evaluation criteria are subject to temporal changes which change only slightly with respect to the time-variable states of said semantic Janus units ~~(5)~~.

9. (Currently Amended) A semantic network in accordance with ~~any one of claims 1 to 8, characterized in that~~ wherein said semantic units ~~(6)~~ are equally capable of changing or deleting their own informational contents or linking units ~~(1a to 4e)~~ and/or generating new informational contents and/or linking units ~~(1a to 4e)~~ or deleting themselves.

10. (Currently Amended) A semantic network in accordance with ~~any one of claims 1 to 9, characterized in that~~ wherein said semantic Janus units ~~(5)~~ may also be linked with other semantic Janus units ~~(5)~~ and/or linking units ~~(1a to 4e)~~ through linking units ~~(1a to 4e)~~ and are capable of carrying out operations on these.

11. (Currently Amended) A semantic network in accordance with ~~any one of claims 1 to 10, characterized in that~~ wherein said time-variable state of semantic Janus units ~~(5)~~ is defined with the aid of points plotted in a two-dimensional system of coordinates.

12. (Currently Amended) A semantic network in accordance with claim 11, ~~characterized in that~~ wherein said time-variable state is shifted with the aid of a set of

rules or of motion equations of a model, whereby a new time-variable state is thus defined.

13. (Currently Amended) A semantic network in accordance with ~~any one of claims 1 to 12, characterized in that~~ wherein at least parts of said semantic units ~~(6)~~ are graphic objects linked among each other through linking units ~~(1a to 4e)~~.

14. (Currently Amended) A semantic network in accordance with claim 13, ~~characterized in that~~ wherein shapes and/or colors of respective graphic objects are changed depending on respective existing, time-variable states of semantic Janus units ~~(5)~~.

15. (Currently Amended) A semantic network in accordance with claim 13 ~~or 14, characterized in that~~ wherein vector graphics are used.

16. (Currently Amended) A semantic network in accordance with ~~any one of claims 13 to 15, characterized in that~~ wherein semantic Janus units ~~(5)~~ may within a virtual semantic network perceived by them virtually reposition, recombine, newly generate, change, delete, replace semantic units ~~(6)~~ and thereby calculate expectations, make predictions and/or find a new identity.

17. (Currently Amended) A semantic network in accordance with claim 16, ~~characterized in that~~ wherein said semantic Janus units ~~(5)~~ may possess or newly generate algorithms and/or methods, further develop them, and operate with them in a virtual environment just like in real semantic networks, each semantic Janus unit ~~(5)~~ being capable of creating in itself, according to need, an image of a partial network and operating on the latter just as if said image were indeed existing in said semantic network.

18. (Currently Amended) Semantic network in accordance with ~~any one of claims 3 to 17, characterized in that~~ wherein the time-variable state of a semantic Janus unit ~~(5)~~

and/or the selection of the vicinity to be monitored and/or the vicinity to be shaped may interactively be changed by a user or by users.

19. (Currently Amended) A semantic network in accordance with claim 18, ~~characterized in that~~ wherein a semantic Janus unit (5) generates, deletes and/or changes semantic view units that present semantic model units of the vicinity to be monitored to ~~the a user(s)~~ a user(s).

20. (New) A machine-implemented semantic network comprising:
a plurality of semantic units to contain relational contents, at least one semantic unit to be a semantic Janus unit; and
at least one linking unit to link two semantic units; wherein
the at least one Janus unit has a time-variable state;
the at least one Janus unit is to carry out operations on at least one of the Janus unit, a semantic unit and a linking unit, according to the time-variable state; and
an operation of the at least one Janus unit is at least one of:
adding a semantic unit;
adding a linking unit;
changing informational contents of a semantic unit;
changing a linking of a linking unit;
deleting a semantic unit; and
deleting a linking unit.